



3309 A-2Z

- SKF Explorer

Angular contact ball bearings, double row

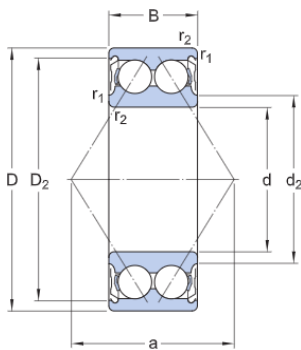
Bearing data

Tolerances,
Normal, P6, P5,
Internal clearance,
table, drawing no

Bearing interfaces

Seat tolerances for standard
conditions,
Tolerances and resultant fit

Technical specification

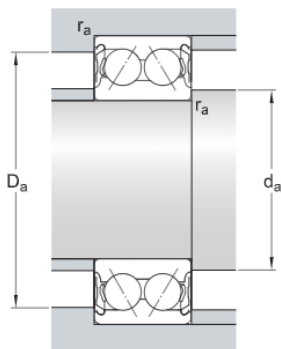


DIMENSIONS

d	45 mm	Bore diameter
D	100 mm	Outside diameter
B	39.7 mm	Width
d_2	≈ 55.6 mm	Recess diameter inner ring shoulder
D_2	≈ 89.95 mm	Recess diameter outer ring shoulder
$r_{1,2}$	min. 1.5 mm	Chamfer dimension inner ring
a	58 mm	Distance pressure point(s)

ABUTMENT DIMENSIONS

d_a	min. 54 mm	Abutment diameter shaft
d_a	max. 91 mm	Abutment diameter shaft
D_c	max. 91 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius



CALCULATION DATA

Basic dynamic load rating	C	75 kN
Basic static load rating	C ₀	53 kN
Fatigue load limit	P _u	2.24 kN
Reference speed		7 500 r/min
Limiting speed		6 700 r/min
Calculation factor	k _r	0.07
Calculation factor	e	0.8
Calculation factor	X	0.63
Calculation factor	Y ₀	0.66
Calculation factor	Y ₁	0.78
Calculation factor	Y ₂	1.24

MASS

Mass bearing	1.25 kg
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More information

Product details	Engineering information	Tools
Designs and variants <hr/>	Principles of rolling bearing selection <hr/>	Bearing Select <hr/>
Bearing data <hr/>	General bearing knowledge <hr/>	SimPro Quick <hr/>
Loads <hr/>	Bearing selection process <hr/>	Engineering Calculator <hr/>
Temperature limits <hr/>	Bearing interfaces <hr/>	LubeSelect for SKF greases <hr/>
Permissible speed <hr/>	Seat tolerances for standard conditions <hr/>	Heater selection tool <hr/>
Designation system <hr/>	Selecting internal clearance or preload <hr/>	Rolling bearings mounting and dismounting instructions <hr/>
	Lubrication <hr/>	
	Sealing, mounting and dismounting <hr/>	
	Bearing failure and how to prevent it <hr/>	

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